

## **MCubed-2 Public Summary**

Licensee: University of Michigan  
Website: <http://exploration.engin.umich.edu/>  
Contact: Dr. James Cutler  
E-mail: [jwcutler@umich.edu](mailto:jwcutler@umich.edu)  
Address: 1320 Beal Avenue, Ann Arbor, MI, 48109  
Phone: 734-615-7238

MCubed-2 is a 1 U CubeSat funded by NASA ESTO and developed by JPL and the Michigan Exploration Laboratory (MXL) at the University of Michigan. The primary payload is the CubeSat On-Board Validation Experiment (COVE) developed by JPL to characterize new FPGA technology. The package also serves to verify instrument design of a Multi-Angle SpectroPolarimetric Imager (MSPI) for the ACE Decadal Survey Mission, which will achieve a two-orders of magnitude reduction in data rate. The secondary mission of MCubed-2 is to train next generation engineers. MCubed-2 contains a coarse imaging system to provide data input to COVE for on orbit processing experiments. MCubed-2 was built and integrated at MXL and launched in December 2014 from Vandenberg AFB into a 120 degree, 463 by 787 km orbit.